

TARASENKO, L.G.

Investigating a 35-mm, motion-picture projector with optical  
compensation of the discontinuous movement of the film. Tekh.  
kino i telev. 4 no.7:39-47 J1 '60. (MIRA 13:7)

1. Nauchno-issledovatel'skiy kinofotoinstitut.  
(Motion-picture projectors)

TABLE 1, 1.

1. Samples of the thermoplastic: recording of target. Vior. revch.  
1 polki. Tot. 1 kin. 10 to 1:30. 11-Ag 105.

(MIRA 18:7)

S/192/63/004/001/002/003  
D204/D307

**AUTHORS:** Matyash, I.V., Piontkovskaya, M.A., Tarasenko, I.M.  
and Tyutyunnik, R.S.

**TITLE:** Proton relaxation in zeolotic water

**PERIODICAL:** Zhurnal strukturnoy khimii, v. 4, no. 1, 1963,  
106-107

**TEXT:** It is noted that although the structure of many zeolites has been studied in some detail both experimentally and theoretically, there is little information about molecular bonding forces in zeolitic water. This has been largely due to experimental difficulties encountered with chemical and spectroscopic (X-ray and infrared) methods. The present work was undertaken to obtain further information about zeolites and to determine the NMR line widths for artificial zeolites. The following were investigated: KA, NaA, CaA, LiA and MgA. It was found that the derivatives of the absorption lines of KA, CaA and MgA did not exhibit detectable splitting which ascribed to the fact that the specimens had not lower than fourfold symmetry axes and the sorption cavities were nearly spherical. Mea-  
Card 1/2

Proton relaxation ...

S/192/63/004/001/002/003  
D204/D307

sured NMR line widths as functions of the relative amount of water appear to confirm that the spin-spin relaxation time does depend on the relative amount of water as reported by Matyash et al (this journal, 2, 214, 1962). On the other hand the self-diffusion coefficient of water molecules in zeolites is universally proportional to the line width  $\Delta H$ . The correlation between  $\Delta H$  and  $\tau_i/\tau$  is shown below

Cation	K	Na	Ca	Li	Mg
$\Delta H$ oe	0.08	0.09	0.17	0.17	0.48
$\tau_i/\tau$	0.05	1.46	2.16	3.48	8.63

where  $\tau_i$  is the mean life of water molecules near the corresponding cation and  $\tau$  is the corresponding equilibrium value in pure water. There are 2 figures and 1 table.

ASSOCIATION: Fiziko-tekhnicheskiy institut nizkikh temperatur AN USSR (Physico-Technical Low Temperature Institute of the AS UkrSSR) Institut fizicheskoy khimii AN USSR (Institute of Physical Chemistry of the AS UkrSSR)

SUBMITTED:

May 28, 1962

Card 2/2

MATYASH, I.V.; GALKIN, A.A. [Halkin, O.O.]; TARASENKO, L.M.

Proton magnetic relaxation in methane. Ukr. fiz. zhur. 8  
no.1:39-41 Ja '63. (MIRA 16:5)

1. Fiziko-tekhnicheskiy institut nizkikh temperatur AN UkrSSR,  
Khar'kov.

(Protons) (Nuclear spin) (Methane)

MIKHOVICH, S.I.; TARASENKO, L.P.; TOIMACHEV, N.I.

Precast concrete pavements of roads leading to industrial plants in  
the Donets Basin. Avt.dor. 24 no.2:8-9 P '61. (MIRA 14:3)

(Donets Basin--Pavements, Concrete)

KLYACHKO, Yu., TARASENKO, M., BRUSENTSEV, A.

Fedor Mikhailovich Shemiakin; on his 50th birthday and the 25th anniversary of his pedagogical work. Zhur.anal.khim. 10 no.6: 385-386 M-D '55. (MLBA 9:3)

(Shemiakhin, Fedor Mikhailovich, 1905-)

BELITSER, V.A. [Belitser, V.O.]; VARETSKAYA, T.V. [Varets'ka, T.V.];  
TARASENKO, L.A. [Tarasenko, L.O.]

Polymerisation of fibrin-monomer and its dependence on pH.  
Ukr.biokhim.shur. 37 no.5:665-670 '65.

(MIRA 18:10)

1. Institut biokhimi AN UkrSSR, Kiyev.



A.E.S.

History & Physics

Phosphate colorimetric method for determining the amount of  $\text{Mg}^{2+}$  in aqueous solution. M. I. Kopylov and V. I. Pavlovskiy. *Russ. Chem. Rev.* 30 (1961) 69-74 (1961). *Russ. Chem. Rev.* 30 (1961) 69-74 (1961). The authors suggest a phosphate colorimetric method for determining  $\text{Mg}^{2+}$  based on the method of Devarda. The  $\text{Mg}^{2+}$  is precipitated as phosphate. The precipitate is filtered, carefully washed, and dissolved in  $\text{HCl}$ . The  $\text{P}_2\text{O}_5$  in the solution is determined colorimetrically. From the amount of  $\text{P}_2\text{O}_5$  present, the amount of  $\text{Mg}^{2+}$  connected with it is calculated. M. H.

SHEMYAKIN, F.M., TARASENKO, M.I.

~~Rapid gravimetric method for determining potassium in preparations~~  
containing the element. Apt.delo 7 no.3:51-54 My-Je '58 (MIRA 11:7,

1. Is kafedry analiticheskoy khimii Moskovskogo farmatsevticheskogo  
instituta.

(POTASSIUM)

TARASENKO, M.I.

Suitability of drying filtering crucibles at high temperature in preparation for gravimetric determinations. Sbor. nauch. rab. MPI 2:40-45 '59. (MIRA 14:1)

1. Kafedra neorganicheskoy khimii (zav. dotsent M.I.Tarassenko) Moskovskogo farmatsevticheskogo instituta. (CHEMISTRY, ANALYTICAL--QUANTITATIVE) (CRUCIBLES)

TARASENKO, M.I.

Amount of lead sulfate lost as a function of the roasting temperature. Sbor. nauch. rab. MPI 2:99-101 '59. (MIRA 14:1)

1. Kafedra neorganicheskoy khimii (zav. - dotsent M.I. Tarasenko)  
Moskovskogo farmatsevticheskogo instituta.  
(LEAD SULFATE) (LEAD-ANALYSIS)

TARASENKO, M.I.

Use of a composite centrifuge test tube in rapid gravimetric  
determinations (determination of lead). Sbor: nauch. rab. MFI  
2:107-111 '59. (MIRA 14:1)

1. Kafedra neorganicheskoy khimii (zav. - dotsent M.I.Tarassenko)  
Moskovskogo farmatsevticheskogo instituta.  
(LEAD—ANALYSIS) (CENTRIFUGATION)

TARASENKO, M.I.

Rapid determination of small amounts of lead by centrifugation.  
Sbor. nauch. rab. MFI 2:112-114 '59. (MIRA 14:1)

1. Kafedra neorganicheskoy khimii (zav. - dotsent M.I.Tarsenko)  
Moskovskogo farmatsevticheskogo instituta.  
(LEAD-ANALYSIS) (CENTRIFUGATION)

TARASENKO, M.I.

Use of glass filtering crucibles in rapid gravimetric determinations.  
Sbor. nauch. rab. MFI 2,115-118 '59. (MIRA 14:1)

1. Kafedra neorganicheskoy khimii (zav. - dotsent M.I. Tarasenko)  
Moskovskogo farmatsevticheskogo instituta.  
(CRUCIBLES) (FILTERS AND FILTRATION)

TARASENKO, M.I.

Rapid quantitative conversion of silver bromide silver iodide with  
the use of filtering crucibles. Sbor. nauch. rab. MFI 2:119-121  
'59. (MIRA 14:1)

1. Kafedra neorganicheskoy khimii (sav. - dotsent M.I. Tarasenko)  
Moskovskogo farmatsevticheskogo instituta.  
(SILVER BROMIDE) (SILVER IODIDE)  
(FILTERS AND FILTRATION)



TARASENKO, M.I.

Use of calomel as the gravimetric form in the determination of  
chloride ions. Sbor. nauch. rab. MFI 2:122-125 '59. (MIRA 14:1)

1. Kafedra neorganicheskoy khimii (sav. - dotsent M.I. Tarasenko)  
Moskovskogo farmatsevticheskogo instituta.  
(CHLORIDES) (CALOMEL)

TARASENKO, M.I.; SHILOV, Yu.M.

Use of unstable binary compounds as the gravimetric form in rapid gravimetric analysis (determination of lead). Sbor. nauch. rab. MFI 2,130-132 '59. (MIRA 14:1)

1. Kafedra neorganicheskoy khimii (sav. - dotsent M.I.Tarassenko) Moskovskogo farmatsevticheskogo instituta.  
(LEAD---ANALYSIS)

TARASENKO, M.I.; ZHERDEVA, N.T.

Rapid gravimetric method of determining calcium lactate and calcium gluconate. Sbor. nauch. rab. MPI 2:145-148 '59. (MIRA 14:1)

1. Kafedra neorganicheskoy khimii (zav. - dotsent M.I. Tarasenko)  
Moskovskogo farmatsevticheskogo instituta.  
(CALCIUM—ANALYSIS)

TARASENKO, M.I.; ZHERDEVA, N.T.

Rapid gravimetric method of determining nickel with an aqueous solution of dimethylglyoxime. Sbor. nauch. rab. MFI 2:149-150 (MIRA 14:1) '59.

1. Kafedra neorganicheskoy khimii (zav. - dotsent M.I.Tarasen'ko) Moskovskogo farmatsevticheskogo instituta.  
(NICKEL-ANALYSIS)

TARASENKO, M.I.

Gravimetric determination of morphine in the form of tetraphenyl-morphine boride. Sbor. nauch. rab. MFI 2:151-153 '59. (MIRA 14:1)

1. Kafedra neorganicheskoy khimii (zav. - dotsent M.I. Tarasenko)  
Moskovskogo farmatsevticheskogo instituta.  
(MORPHINE)

TARASENKO, M.I.

Rapid gravimetric method of determining bismuth oxide in xeriform.  
Sbor. nauch. rab. MFI 2:154-156 '59. (MIRA 14,1)

1. Kafedra neorganicheskoy khimii (zav. - dotsent M.I.Tarassenko)  
Moskovskogo farmatsevticheskogo instituta.  
(BISMUTH OXIDE) (KEROFORM)

TARASENKO, M.I.

New shape of containers for rapid settling of precipitates. Sbor.  
nauch. rab. MFI 2:161-164 '59. (MIRA 14:1)

1. Kafedra neorganicheskoy khimii (sav. - dotsent M.I.Tarassenko)  
Moskovskogo farmatsevticheskogo instituta.  
(PRECIPITATION (CHEMISTRY))

TARASENKO, M.I.

Composite filtering glass for gravimetric determinations. Sbor.  
nauch. rab. MFI 2:165-168 '59. (MIRA 14:1)

1. Kafedra neorganicheskoy khimii (zav. - dotsent M.I.Tarassenko)  
Moskovskogo farmatsevticheskogo instituta.  
(FILTERS AND FILTRATION)



TARASENKO, M.I.

Composite centrifuge test tube for rapid gravimetric determinations.  
Sbor. nauch. rab. NFI 2:169-171 '59. (MIRA 14:1)

1. Kafedra neorganicheskoy khimii (sav. - dotsent M.I.Tarassenko)  
Moskovskogo farmatsevticheskogo instituta.  
(CENTRIFUGATION)

TARASENKO, M.I.; BULENKOV, T.I.

Simple arrangement for a rapid drying of precipitates in gravimetric determinations. Sbor. nauch. rab. MFI 2:172-174 '59.

(MIRA 14:1)

1. Kafedra neorganicheskoy khimii (zav. - dotsent M.I. Tarasenko)  
Moskovskogo farmatsevticheskogo instituta.  
(DRYING) (CHEMICAL APPARATUS)

TARASENKO, M.I.; ZHERDEVA, N.T.

Rapid gravimetric method of determining calcium in lime and limestone. Sbor. nauch. rab. MFI 2:140-150 '59. (MIRA 14:1)

1. Kafedra neorganicheskoy khimii (sav. - dotsent M.I.Tarassenko)  
Moskovskogo farmatsevticheskogo instituta.  
(CALCIUM ANALYSIS)

TARASENKO, M.I. [Tarasenko, M.I.]

Study of the ternary systems  $\text{Na}(\text{P}(\text{C}_6\text{H}_5)_4) - \text{H}_2\text{O} - \text{C}_{17}\text{H}_{19}\text{O}_3\text{N} \cdot \text{HCl}$  and  $\text{Na}(\text{B}(\text{C}_6\text{H}_5)_4) - \text{HCl} - \text{C}_{17}\text{H}_{19}\text{O}_3\text{N} \cdot \text{HCl}$  using a Gibbs triangle for the purpose of understanding conditions governing the precipitation of morphine by sodium tetraphenylboron. Vestsi AN BSSR. Ser.fiz.-tekh.nav no13: 61-68 '60. (MIRA 13:9)

(Morphine)

(Boron)

(Organic compounds)

TARASENKO, M. I.

Doc Pharm Sci - (diss) "New rapid weight method of analysis on the basis of topological classification of processes of obtaining the weight form as a criterion of precipitant selection, and its use for the determination of several pharmaceutical preparations and finished medicinal forms." Leningrad, 1961. 31 pp; (Ministry of Public Health RSFSR, Leningrad Pharmaceutical Chemistry Inst); 300 copies; price not given; list of author's works on pp 30-31 (21 entries); (KL, 10-61 sup, 227)

TARASENKO, M.I., kand.khim.nauk

Rapid weight determination of bismuth in some pharmaceutical preparations. Sbor.nauch.trud. TSANII 2:118-129 '61.

(MIRA 1685)

1. Rukovoditel' laboratorii farmatsevticheskogo analiza TSentral'nogo aptechnogo nauchno-issledovatel'skogo instituta,  
(BISMUTH ANALYSIS) (DRUGS ADULTERATION AND ANALYSIS)

MYRKOV, S.V.; MERKEL', S.A.; TARASENKO, M.L.

[Advanced technology of the Kuznetsk Basin mines and its efficient utilization; on the practice of mines working flat and inclined seams] Peredovaya tekhnika na shakhtakh Kuzbassa i voprosy ee ratsional'nogo ispol'zovaniia; po dannym o rabote shakht, razrabatyvaimushchikh pologie i naklonnye plasty. Novosibirsk, Novosibirskoe knizhnoe izd-vo, 1958. 85 p.

(MIRA 15:9)

(Kuznetsk Basin--Coal mines and mining)

TARASENKO, M. M.

*Chern* ✓ Vibrating ball mill<sup>14</sup> O. A. Nesvizhskii, A. A. Savchenko,  
A. S. Savin, and M. M. Tarasenko. U.S.S.R. 104,  
014, Oct. 26, 1964. M. II.

*Sam*



TAMBOUNO, M.P.

Agriculture

(The orchard) Kyiv, (Derzh. vyd-vo sil's' khozpodars'koi lit-ry UkrSU) 1951.

9. Monthly List of Russian Accessions, Library of Congress, JULY 1951, ~~1953~~ Uncl.

TARASENKO, M. P.

Apple

Frost damage to apple tree trunks and its relation to stocks and scions. Agrobiologia No. 1, 1952. Kandidat S.-kh. Nauk. Ukrainskiy Nauchno-issle-lovatel'skiy Institut Plodovodstva, g. Kiyev, Kutayevo.

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified

TARASENKO, M.P.; SHIK, B.I.; DOBROVOL'SKII, P.M.; SEMENOV, A.G., red.

[Hints to fruit and grape growers] Sovety sadovodam i vinogradarim.  
Kiev, Gos.izd-vo sel'khoz. lit-ry USSR, 1957. 234 p. (MIRA 10:12)  
(Fruit culture) (Viticulture)

SR / Cultivated Plants. Fruit Trees. Small Fruit  
Plants. Nut Trees. Tea.  
Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 25021  
Author : Tarasenko, M. P.  
Inst : Not given  
Title : Division of Fruit-Species Uncultivated  
Plants into Districts in the Ukrainian SSR  
Orig Pub : Byul. nauk.-tekhn. inform. po sadivnytstvu,  
1957, No 4, 31-33

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Abstract

: No abstract given

Abstract

Card 1/1

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APPROVED FOR RELEASE: 07/13/2001

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1957,  
fruit varieties,  
of frost-resistance and  
each variety over  
are presented. It is  
include in standard  
a number of new varieties in  
[Ground Aids to Navigation];

TARASENKO, M.P., kand. sel'skokhozyaystvennykh nauk

Effect of rootstock on characteristics of the cherry tree.  
Agrobiologiya no.5:127-129 S-O '58. (MIRA 11:11)

1. Ukrainskiy institut sadovodstva, g. Kiyev.  
(Cherry) (Grafting)

TARASENKO, M.P.; SHIK, V.I.; DOBROVOL'SKIY, P.M.

[Advice to fruit and grape growers] Sovety sadovodam i vinogradariam.  
Izd.2., dop. Kiev, Gos.izd-vo sel'khoz.lit-ry USSR, 1959. 251 p.  
(Ukraine--Fruit culture) (Ukraine--Viticulture) (MIRA 13:2)

TARASENKO, Moisey Petrovich; SHIK, Boris Il'ich; DOBROVOL'SKIY, Pavel  
Mikheylovich; MILOKOSTA, N.Ya., red.; NEMCHENKO, I.Ye., tekhn.  
red.

[Advice to fruit and grape growers] Sovety sadovodam i vinogradariam. Kiev, Gos.izd-vo sel'khoz.lit-ry USSR, 1960. 249 p.  
Izd.3. (MIRA 15:1)

(Horticulture—Handbooks, manuals, etc.)  
(Viticulture—Handbooks, manuals, etc.)

TARASENKO, M. P., kand. sel'skokhozyaystvennykh nauk

Fruiting ability of apple trees grown from cuttings of young  
immature plants. Agrobiologiya no.5:780-782 S-O '60.  
(MIRA 13:10)

1. Ukrainskiy nauchno-issledovatel'skiy institut sadovodstva,  
Kiyev.

(Apple)



TARASENKO, M.P.; SHIK, B.I.; DOBROVOL'SKIY, P.M.; MILOKOSTA, N.Ya.,  
red.; KALASHNIKOVA, O.G., tekhn. red.

[Advice on fruit culture and viticulture] Sovety po sadovodstvu  
i vinogradarstvu. Izd.4., dop. Kiev, Gossel'khozizdat USSR,  
1962. 276 p. (MIRA 15:6)

(Fruit culture)

USSR / Cultivated Plants. Fruit Trees. Small Fruit  
Plants. Nut Trees. Tea. M

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 25021  
Author : Tarasenko, M. P.  
Inst : Not given  
Title : Division of Fruit-Species Uncultivated  
Plants into Districts in the Ukrainian SSR  
Orig Pub : Byul. nauk.-tekhn. inform. po sadivnytstvu,  
1957, No 4, 31-33  
Abstract : No abstract given

Card 1/1

150

USSR / Cultivated Plants. Fruit Trees. Small Fruit  
Plants. Nut Trees. Tea.

M

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 25023

Author : Ryabov, N. N.

Inst : Not given

Title : Concerning the Division Into Districts of  
Horticultural Crop Varieties

Orig Pub : Vinogradarstvo i sadovodstvo Kryma, 1957,  
No 2, 16-20

Abstract : Characteristics of old pip-fruit varieties,  
according to yield, frost-resistance and  
percent correlation of each variety over  
three zones of Crimea are presented. It is  
recommended to include in the standard  
specifications a number of new varieties in  
the Crimean ZOS [Ground Aids to Navigation]:

Card 1/2

BCS

*Training, Prep, Shop.*

1955. The testing and adjusting of LVP-4 vacuum presses (S.M.-32).—  
 31, S. TARASUKO (*Sov. Keram.*, 7, No. 12, 4, 1950). This vacuum press is intended  
 for the manufacture of hollow blocks, refractories, acid-resistant products, etc.  
 The trial of the first designs of this machine showed its defects, e.g. low efficiency,  
 overfilling of the vacuum chamber with clay, inadequate evacuation of the chamber,  
 marked lamination, a greater density of the core of the pressed product coming from  
 the mouth-piece, mechanical troubles with parts of the press, etc. Attempts to  
 eliminate each deficiency are described in detail, e.g. to combat the overfilling of the  
 vacuum chamber the number of blades on the shaft of the mixer at the entrance of  
 the chamber was increased (from 6 to 12-18). The output thus reached was 2,000-  
 2,500 bricks/hr. Afterwards attempts were made to determine the optimum  
 moisture content of the clay, which greatly affects the efficiency of the press. The  
 overfilling of the vacuum chamber with clay was found to be due to the sucking of  
 water into the chamber at the moment when the vacuum pump was switched off,  
 and the consequent increase in the moisture content. To eliminate this a separator  
 was installed on the piping from the chamber to the pump. A gap between the cone  
 fixed on the mixer shaft and the moving clay was found to be responsible for the poor  
 vacuum. The following steps were then taken: the adjustable bearings were  
 removed; the number of blades fixed to the cone on the mixer shaft was increased  
 (from 6 to 10-12); the safety jacket at the cone worm casing was removed. The  
 vacuum was increased from the original value of 300 mm. Hg to 500 mm. It was  
 observed that the max. vacuum (with the same pump) depends on how tightly the  
 clay seals the chamber, i.e. on the moisture content of clay, and on the rate at which  
 clay passes the ring opening. (9 figs., 1 table.)

BCS

*Manning*  
*Manning*

29. The origin of Scherzer cracks. M. S. Trauberg (Sov. Acad. Sci., No. 6, 1951). It is stated that the following theory by Keller is generally accepted in Germany and the U.S.A. for S-cracks in bricks. A circular hole is formed in the clay column opposite the base of the auger, and this hole then becomes oval. During the movement of clay along the mouth-piece the oval hole becomes a horizontal crack which, owing to the rotation of the auger, assumes a vertical position with the ends aligned in the direction of the auger rotation. According to Keller, the permeation of the division line (hole) is assisted by some special properties of the clay which, owing to the fact, mentioned as above, preventing rotation of the clay column, which has been subjected to friction against itself. Keller also suggests means to prevent the sliding by the introduction of certain materials into the second type, although effective measures of the first type are detrimental and those of the rotary movement of the clay in the true, have nothing to do with the prevention of the rotary movement of the clay in the auger and the die and, therefore, cannot be connected with the cause of S-cracks. To study how clay is supplied by the auger during shaping, so many influencing factors

over

as possible were excluded in the following steps. Clay, after consolidation in the spacer (which consisted of a parallel spacer, an expansion chamber and a tapered spacer) was extruded by the auger with the die removed. Thus the flow received a direction although the principal factor regulating it was absent and the flow was free. When the clay column movement was observed from the front, it could be clearly seen that this movement is effected in a pulse-like manner, alternately from left and from right. The column was cut into parts and photographs show the origin and development of the crack which with free extrusion caused the column to split in two. Moreover, it is seen that, although there is a trace like a hole in the mass, the crack appears and develops independently of it. This hole is a centre to which the cracks lead. It is concluded that one of the main causes of S-cracks are these continuous impacts exerted upon the clay in the spacer. It is assumed that these impacts can be explained by the changes in force of the auger exerted upon the clay combined with the elastic properties of the latter. The force exerted by the rotating blade on the clay is gradually increased to the edge of the blade, behind which it diminishes sharply. During rotation of the blade pressure changes within a circle along a radius from a max. at the wall of the spacer to a min. in the centre. Owing to elastic properties, energy received from the auger blade is accumulated until sufficient to overcome gravity, inertia, pressure and the forces of internal friction. This elastic potential is stated to cause the S-cracks. (12 figs.)

TAKASUNO, M.S.

Power Presses

Performance of vacuum press SM-32 in ceramic factories. Stek. 1 ker. 3, no. 3, 1972.

9. Monthly List of Russian Accessions, Library of Congress, MAY 1952 ~~1953~~, Uncl.

TARASENKO, M. S.

Pressed Bricks

Performance of vacuum press SM-32 in ceramic factories. Stek. i ker. 9 no. 3: 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 195<sup>2</sup>, Uncl.



TARASENKO, M.S., inzhener.

The modernized SM-296 brickmaking aggregate. Mekh.stroi. 10 no.7:28-30  
Jl '53. (MLBA 6:7)

(Brickmaking machinery)

TARASENKO, M. S.

USSR/ Miscellaneous      Glass manufacture

Card : 1/1      Pub. 104 - 2/12

Authors : Tarasenko, M. S.

Title : Causes and elimination of waviness (flaws) in ceramic products

Periodical : Stek. i ker. 9, 4 - 8, September 1954

Abstract : Causes for the formation of flaws in ceramic products and methods for the elimination of same, are discussed. Graphs; illustrations; drawings.

Institution : .....

Submitted : .....

TARASENKO, M.S.

USSR/ Engineering - Machine tools

Card 1/1      Pub. 104 - 6/12

Authors      : Tarasenko, M. S.

Title      : The defects in design of screw-press axles and their elimination

Periodical   : Stek. 1 ker. 1, 15 - 18, Jan 1955

Abstract    : An analysis is presented of defects in design of the SM-32, SM-29, SM-58, SM-142, SM-277, and KEM screw-press axles, and the effect of these defects on the extent of axles bending, their deformation and the loss of vacuum in presses. Two USSR references (1923 - 1951). Diagrams; drawings.

Institution: .....

Submitted: .....

TARASENKO, M.S., inzh.

Development of the lime industry. Mekh. trud. rab. 11 no. 10:38-41  
0 '57. (MIRA 10:11)

(Lime)

YEVNEVICH, Anton Vladislavovich, kand. tekhn. nauk; VAYNSON, A.A.,  
kand. tekhn. nauk, retsenzent; TARASENKO, M.S., inzh.,  
retsenzent; VASIL'YEV, A.A., inzh., red.; USPENSKIY, K.G.,  
red. izd-va; CHERNOVA, Z.I., tekhn. red.

[Hoisting and conveying machinery at building materials  
plants]Gruzopod"emnye i transportiruiushchie mashiny na  
zavodakh stroitel'nykh materialov. Izd.3., perer. Mo-  
skva, Mashgiz, 1962. 351 p. (MIRA 15:8)  
(Building materials industry) (Hoisting machinery)  
(Conveying machinery)

TARASENKO, Mikhail Trofimovich; FETISOV, G.G., redaktor; TAIROVA, V.N.,  
redaktor; ~~PERESYPKINA~~, Z.D., tekhnicheskii redaktor; ZUBRILINA, Z.P.,  
tekhnicheskii redaktor

[Rejuvenation of a variety] Obnovlenie sorta. Moskva, Gos. izd-vo  
selkhoz. lit-ry, 1956. 206 p. (MLRA 9:11)  
(Fruit culture)

100K 115 111 111  
KAMSHILOV, N.A.; ANTONOV, M.V.; BAKHAREV, A.N.; BLINOV, L.F.; BORISOGLEBSKIY,  
A.D.; GAR, K.A.; GARINA, K.P.; GORSHIN, P.F.; GUTIIYEV, G.T.;  
DELITSINA, A.V.; DUBROVA, P.F.; YEVTUSHENKO, A.F.; YEGOROV, V.I.;  
YEREMENKO, L.L.; YEFINOV, V.A.; ZEILITSKIY, Ya.Z.; ZHUCHKOV, N.G.,  
prof.; ZAYETS, V.K.; ISKOL'DSKAYA, R.B.; KOLESNIKOV, V.A., prof.;  
KOLESNIKOV, Ye.V.; KOSTINA, K.F.; KRUGLOVA, V.A.; LEONT'YEVA, M.N.;  
LESYUK, Ye.A.; MUKHIN, Ye.N.; NAZARYAN, Ye.A.; NEGRUL', A.M., prof.;  
ODITSOV, V.A.; OSTAPENKO, V.I.; PETRUSEVICH, P.S.; PROSTOSERDOV,  
N.N., prof.; RUKAVISHNIKOV, B.I.; RYABOV, I.N.; SABUROV, N.V.;  
SABUROVA, T.N.; SAVZDARG, V.E.; SEMIN, V.S.; SIMONOVA, M.N.;  
SMOLYANINOVA, N.K.; SOBOLEVA, V.P.; TARASENKO, M.T.; FETISOV, G.G.;  
CHIZHOV, S.T.; CHUGUNIN, Ya.V., prof.; YAZVITSKIY, M.N.;  
ROSSOSHCHANSKAYA, V.A., red.; BALLOD, A.I., tekhn.red.

[Fruitgrower's dictionary and handbook] Slovar'-spravochnik  
sadovoda. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1957. 639 p.  
(MIRA 11:1)

(Fruit culture--Dictionaries)

TARASENKO, M.T., red.; NIKOLAYEVA, V.G., red.; DUMBRE, I.Ya., tekhn.red.

[Use of growth regulators in fruit growing; a collection of articles] Primenenie regulatorov rosta v plodovodstve; sbornik statei. [Translated from the English] Izd-vo inost.lit-ry, 1958. 266 p. (MIRA 12:2)

(Fruit culture) (Growth promoting substances)



TARASENKO, M.T., dotsent, kand. sel'skokhoz. nauk

Effect of the strength of growth regulating solutions and the time  
of their application on the rooting of green cuttings of cherry  
and plum trees. Izv. TSKhA no.5:47-62 '59 (MIRA 13:3)  
(Cherry) (Plum) (Growth promoting substances)

TARASENKO, M.T., dots., kand. sel'skokhozyaystvennykh nauk.

Propagation of currants and gooseberries by green cuttings [with  
summary in English]. Izv. TSKhA no.5:125-148 '58. (MIRA 11:11)  
(Gooseberries) (Currants) (Plant propagation)

TARASENKO, M.T., kand.sel'skokhozyaystvennykh nauk; SHTEFAN, N.N., kand.  
sel'skokhozyaystvennykh nauk

Rooting characteristics of green cherry and plum cuttings in  
relation to growth and developmental stages of shoots. Izv.  
TSKhA no.3:123-136 '60. (MIRA 14:4)  
(Cherry) (Plum)



TARASENKO, M.T., dotsent, kand. sel'skokhoz. nauk; KORNATSKIY, A.F.,  
dotsent, kand. sel'skokhoz. nauk; SOKRATOVA, E.G., aspirantka

Use of hydroponics in vegetative propagation of orchard plants.  
Izv. TSKHA no.5:148-164 '64. (MIRA 18:5)

1. Kafedra plodovodstva Moskovskoy ordena Lenina sel'skokhozyayst-  
vennoy akademii imeni Timiryazeva.

TARASENKO, M.Ya., inzh.

Mechanization of construction work. Sbor. st. CHPI no.15:61-66 '58.

(MIRA 12:3)

(Building) (Industrial management)

TARASENKO, Mikhail Yakovlevich; SOLOMIN, V.V., nauchnyy red.; GERASIMOVA, G.S., red. izd-va; GOL'BERG, T.M., tekhn. red.

[Reorganization of the management of industry and construction and lowering the cost of building and assembling operations; from the experience of the Chelyabinsk Economic Administration Region] Perestroika upravleniia promyshlennosti i stroitel'stvom i snizhenie sebestoimosti stroitel'no-montazhnykh rabot; iz opyta stroitel'nykh organizatsii Cheliabinskogo ekonomicheskogo administrativnogo raiona. Moskva, Gos. izd-vo lit-ry po stroit., arkh. i stroit. materialam, 1961. 74 p. (MIRA 14:7)

(Chelyabinsk Province—Construction industry)

TARASENKO, M.Ya., inzh.-ekonomist

Ways of lowering the cost of manufacturing precast concrete  
elements in the Chelyabinsk Economic Administration Region

Sbor. trud. Inzh.-stroi. fak. Chel. politekh. inst. no.3:11, 126  
(MIRA 17:9)

'63.



TARASENKO, N.

Problems of war, peace, and revolution in the present era.  
Komm. Vooruzh. Sil 46 no.22:66-73 N '65. (MIRA 19:1)

TARASENKO, N.D.

Effect of ionizing radiation and chemical compounds on growth processes and hereditary mutability in potatoes. Izv. SO AN SSSR no.4. Ser. biol.-med. nauk no.1:35-40'63. (MIRA 16:8)

1. Institut tsitologii i genetiki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

(PLANTS, EFFECT OF RADIATION ON)  
(PLANTS, EFFECT OF CHEMICALS ON) (CHROMOSOMES)

TARASENKO, N.D.

Effect of ethylenimine on growth processes and hereditary changes in the lentil. Izv. SO AN SSSR no.12. Ser. biol.-med. nauk no.3: 133-136 '63. (MIRA 17:4)

1. Institut tsitologii i genetiki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

11245-63  
ACCESSION NR: AP3001069

AUTHOR: Taraseen, N. D.  
EWT(1)/EWT(m)/BDS--AFPTC/ASD  
S/0205/63/003/003/04211-51

TITLE: Effect of gamma rays, fast neutrons, and ethyleneimine on changeability and chromosome aberrations in potato seedlings

SOURCE: Radiobiologiya, v. 3, no. 3, 1963, 427-430

TOPIC TAGS: gamma rays, fast neutrons, ethyleneimine, chromosome mutations

ABSTRACT: The offspring of hybrids resulting from crossing of cultured and wild species often are resistant to diseases but also display certain negative characteristics acquired from the wild species. The hybrids are crossed repeatedly to eliminate these undesirable characteristics and in the process the positive characteristics are often lost. This difficulty may be overcome by induced mutation of the chromosome in the hybrid. In this study potato seedlings were irradiated with gamma rays, fast neutrons, and ethyleneimine for 24 hours. Results show that the germination energy of the seeds increased by 7 to 15% when treated with gamma rays and fast neutrons and decreased by 10% when treated with ethyleneimine. Cytological investigations indicate that gamma rays increase the frequency of mitoses with chromosome aberrations by 11.23% or - 1.23%, fast neutrons by 7.22% or - 0.31%.

ASSOCIATED  
Cytology

SUBMITTED:

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Card 1

80V: 003

was the most frequent  
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CSR, Novosibirsk  
Institute of

ENCL: 00

OTHER: 005

TALASENKO, N.I.

Chromosomal aberrations in grafts. ...  
biol.-med. nauk no. 1143-115 1964. (MIRA 111)

1. ...  
B. ...

TARASENKO, N.D.

Changeability of first generation potato seedlings under the  
influence of gamma rays, fast neutrons and ethylenimine.  
Radiobiologiya 4 no.5:770-774, '64. (MIRA 1814)

2. Institut tsitologii i genetiki Sibirskogo otdeleniya AN SSSR,  
Novosibirsk.

TARASENKO, N.D.; BERDYSHEV, G.D.; IOPUSHONOK, V.Yu.

Free radicals in irradiated seed potatoes with different storage  
time. Biofizika 10 no.5:893-895 '65.

(MIRA 18:20)

1. Institut tsitologii i genetiki Sibirskogo otdeleniya AN SSSR  
Novosibirsk.

TARASENKO, N.D.

Experimental somatic mutations in some potato varieties.  
Genetika no.5:145-149 N '65. (MIRA 19:1)

1. Institut tsitologii i genetiki Sibirskogo otdeleniya AN SSSR,  
laboratoriya eksperimental'nogo mutagereza. Submitted April 29,  
1965.



25(7)

SOV/117-59-7-21/22

AUTHOR: Tarasenko, I.G.

TITLE: A Device for Cutting Out Gaskets.

PERIODICAL: Mashinostroitel', 1959, Nr 7, p 37 (USSR)

ABSTRACT: The described device cuts gaskets out of sheet material, "paronit", cardboard, or rubber. It is used on a drilling machine, attached by a mandrel to the spindle. Its cutting tools are two cutting rollers (Figure 1) cutting on the inner and outer diameter of the gaskets. The rollers can be fixed at different distances from the center, and for cutting material of more than 4 mm thickness, the cutting rollers are replaced by special blades. The special holder for the sheet material used with this device is also shown (Figure 2).

Card 1/1

TARASENKO, N.I., polkovnik meditsinskoy sluzhby; KOTIKOVSKIY, N.S., mayor  
meditsinskoy sluzhby

Experience of a military hospital in organizing preventive medical  
service in army units. Voen. med. zhurn. no.2:23-25 F '59. (MIRA 12:7)

(MEDICINE, MILITARY AND NAVAL

prov. aspects of military hosp. (Rus))

(MEDICINE, PREVENTIVE

same)

(HOSPITALS,

same)

TARASENKO, N.I., inzh.

Simplification of technical documentation. Sudostroenie 25  
no.9:43-45 S '59. (MIRA 12:12)  
(Shipbuilding--Contracts and specifications)

TARASENKO, N.I., gornyy inzh.; POPOV, P.V., gornyy inzh.; SHAPIRO, I.G.,  
gornyy inzh.

Mechanization of development mining operations. Ugol' Ukr. 4 .  
no.7:27-29 J1 '60. (MIRA 13:8)  
(Coal mines and mining) (Angers)

TARASENKO, N.M. (Moskva)

Epilepsy. Vol'd. 1 akush. no.10:8-12 0 '54.  
(EPILEPSY.)

(MLRA 7:11)

TARASENKO, N.M. (Moskva)

Severe cranial traumas in children and their sequelae. Vel'd.i  
akush. no.4:9-12 Ap '55. (MLRA 8:7)

(CRANIUM, wounds and injuries,  
in child., seq.)  
(WOUNDS AND INJURIES,  
cranium, in child., seq.)

BERDASHKEVICH, Ya.A.; BELOUS, A.M.; BOROVITSKAYA, A.I.; YENGALINENKO, N.S.;  
POGREENYAK, B.A.; SOKOL, G.M.; TARASENKO, N.N.

Occurrence of traumatic orthopedic diseases among rural and  
urban population. Ortop., travm. i protez. 26 no.11:60-66  
N '65. (MIRA 18:12)

1. Iz Khar'kovskogo instituta protezirovaniya, travmatologii  
i ortopedii imeni M.I. Sitenko (direktor - chlen-korrespondent  
AMN SSSR prof. N.P. Novachenk). Adres avtorov: Khar'kov,  
Pushkinskaya ul. d. 80, Institut imeni M.I. Sitenko.

YERMAKOV, Konstantin Semenovich; ~~TARASENKO, Nikolay Vasil'yevich~~;  
LUTOV, Viktor Mikhaylovich; GRECHKIVSKIY, V.S., inzh., red.;  
ROMANNIKOV, F., red.; KARZHAVINA, Ye., tekhn. red.

[New methods for chip breaking] Novoe v struzhkolomani. Li-  
petsk, Lipetskoe knizhnoe izd-vo, 1960. 35 p.  
(MIRA 15:3)

(Metal cutting)



SHTEYNBERG, I.S.; TARASENKO, N.V.; KUZNETSOV, V.I.; LUTOV, V.M.

Letters to the editor. Stan. i instr. 31 no.5:38 My '60.  
(MIRA 14:5)

1. Zamestitel' glavnogo tekhnologa Lipetskogo traktornogo zavoda  
(for Shteynberg) 2. Nachal'nik laboratorii rezaniya Lipetskogo  
traktornogo zavoda (for Tarasenko). 3. Starshiye inzhenery  
Lipetskogo traktornogo zavoda (for Kuznetsov, Lutoy).  
(Lipetsk—Metal cutting)

TARNAVSKIY, L. ., kand. tekhn. nauk; TARASENKO, N.V., inzh.

Investigating the possibility of making straight rods in the  
process of drawing on chain draw benches. Stal' 25 no.8:861-  
863 S '65. (MIRA 18:9)

*TARASENKO N.Yu.*  
LETAVET, A.A.; TARASENKO, N.Yu.

Problem of hygiene in industrial radiography. Gig.sanit., Moskva  
No.2:24-31 Feb 51. (GLML 20:6)

1. Of the Institute of Labor Hygiene and Occupational Diseases of  
the Academy of Medical Sciences USSR.

The dangers assocd. with the use of radium-mesothorium capsules for  
defectoscopy of metallic objects are discussed, and recommendations are made for  
protective measures and equipment.

TARASENKO, N. YU.

July 53

USSR/Medicine - Radioactive Paints.

"The Hygienic Aspects of Work with Radioactive Luminescent Paints," N.Yu Tarasenko,  
M.S. Rozanov, Institute of Labor Hygiene and Occupational Diseases, <sup>Acad</sup> ~~Acad~~ of Med Sci USSR,

Gig i San, No 7, pp 19-25.

Notes ~~the~~ increased use of radioactive luminescent paints in the USSR. Describes and  
advocates safety rules for workers handling radioactive substances. Cites the "severe  
conditions contracted by workers in capitalistic countries, caused ~~by~~ neglect ~~of~~ <sup>through</sup> <sup>by</sup> their  
bosses."

1 T-8

*TARASENKO, N. Yu.*

LETAVET, A.A.; RYAZANOV, V.A.; KHOTSYANOV, L.K.; MOROZOV, A.L.; MARTSINKOVSKIY, B.I.; MITREYEV, G.A.; IVANOV, V.A.; IZRAEL'SON, Z.I.; ORLOV, N.I.; CHERKINSKIY, S.M.; BERTUSHOV, K.G.; KIBAL'CHICH, I.A.; TARASENKO, N.Yu.; DRAGICHINA, Ye.A.; VORONTSOVA, Ye.I.; SANINA, Yu.P.; ~~KRENEVA~~, S.N.; KULAGINA, N.K.; SHAFRANOVA, A.S.; TIKHAYA, M.G.; MOLOKANOV, K.P.; RAZUMOV, N.P.; KURLYANDSKAYA, E.B.; KHALIZOVA, O.D.

In memory of Professor N.S.Pravdin. Gig.i san. no.4:61 Ap '54.  
(MLRA 7:4)  
(Pravdin, Nikolai Sergeevich, )

TARASENKO, N.Yu.

"Concerning the Question of Organization of Cleaning Clothing  
Made of Cotton Fabric from Radioactive Contamination," by  
N. Yu. Tarasenko, Meditsinskaya Radiologiya, Vol 1, No 5, Sep/-  
Oct 56, pp 91-96 ✓

While working with radium, thorium, mesothorium, radiothorium, strontium-89, strontium-90, cesium-134, ruthenium-106, sodium-22, calcium 41, etc., and isotopes there is always danger of contamination of clothing; besides some radioactive substances may get into the internal organs. To prevent this danger two protective measures are described: establishment of safe levels of contamination, and control over these levels by dosimeters.

The method suggested is that clothes be tested for their radioactivity on wearing them (especially the sleeves and the front) and that after their wear they be sent in carefully labeled bags to central processing plants which are to be established in each city where institutions work with radioactive substances. Furthermore, the degree of contamination, i.e., Group 1, Group 2, or extremely contaminated, and type of contamination, i.e., alpha- beta- or gamma-contamination, also are to be labeled on the bag. It is also desirable to provide special laundries having areas that are especially designed to decontaminate footwear and accessories, such as gloves, filmy plastic suits, and gas masks.

Sum 1274

*TARASENKO, N. Yu.*

USSR/Safety Engineering. - Sanitary Engineering. Sanitation.

L.

Abs Jour : Referat Zhur - Khimiya, No 9, 1957, 33357

Author : Tarassenko, N.Yu.

Inst :

Title : Concerning the Organization of Decontamination of Cotton  
Fabric Clothes from Radioactive Substances.

Orig Pub : Med. radiologiya, 1956, 1, No 5, 91-96

Abstract : No abstract.

Card 1/1

SOV/137-58-8-18204

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 285 (USSR)

AUTHOR: Tarasenko, N. Yu.

TITLE: Labor Hygiene in the Work With Covered Sources of Gamma Radiation (Gigiyena truda pri rabote s zakrytymi istochnikami gamma-izlucheniya)

PERIODICAL: Tr. Vses. konferentsii po med. radiol. Vopr. gigiyeny i dozimetrii. Moscow, Medgiz, 1957, pp 11-18

ABSTRACT: Possible cases of irradiation by  $\gamma$  sources in the transportation of compounds and in work with apparatus of movable and stationary type were examined. A table of the character of radioactive isotopes used as sources of  $\gamma$  rays is adduced.

1. Gamma rays—Physiological factors
2. Radioisotopes—Properties

Ye. L.

Card 1/1



TARASENKO, N.Yu.; PROSTAKOVA, I.G. (Moskva)

Health problems connected with work in atomic power plants. Gig.  
truda i prof.zab. 1 no.1:10-14 Ja-F '57. (MIRA 10:6)  
(ATOMIC POWER INDUSTRY--HYGIENIC ASPECTS)

PHASE I BOOK EXPLOITATION

SOV/3589

Sbornik radiokhimicheskikh i dozimetricheskikh metodik (Collection of Radio-Chemical and Dosimetric Methods) Moscow, Medgiz, 1959. 459 p. Errata slip inserted. 9,000 copies printed.

Eds. (Title page): N.G. Gusev, U.Ya. Margulis, A.N. Marey, N.Yu. Tarasenko, Yu.M. Shtakkenberg; Ed. (Inside book): V.I. Labaznov; Tech. Ed.: A.I. Zakharova.

**PURPOSE:** This collection of articles is intended for physicists, sanitation and public health doctors, chemists and other specialists working in radioactive dosimetry.

**COVERAGE:** This work discusses the following subjects: (1) principles of organizing sanitation and dosimetric control in institutions where work is carried on with radioactive substances; (2) radio-chemical and chemical methods for determining certain radioactive substances in samples of air, water, soil and foodstuffs; (3) physical methods of measuring contamination of the air by radioactive gases and aerosols, and methods for determining the level of contamination of working surfaces, clothes and leather coverings; (4) methods

Card 1/ 11

Collection of Radio-Chemical and Dosimetric Methods

SOV/3589

of measuring external streams of x- and gamma-radiation, and methods of individual dosimetric monitoring; (5) Absolute and relative methods of measuring the activity of solid and liquid radioactive sources. There are four appendixes dealing with methods of calculating the total dosage from sources of ionizing radiation, units of activity, and doses from natural (background) radioactivity in the calcium of foodstuffs. Sanitary regulations observed during transportation, storage, and handling of radioactive substances are discussed, as well as the permissible level of ionizing radiation. The editors thank Yu.V. Sivintsev and D.P. Shirshov. References appear at the end of each chapter.

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3. Determination of the concentration of active aerosols with  
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